

PATENT SPECIFICATION



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238,487

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COMPLETE SPECIFICATION.

Improvements in Lock Nuts.

I, HUBERT DOLLMAN, of 19, Anderton Park Road, Moseley, Birmingham, in the County of Warwick, a subject of the King of Great Britain, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to nuts which are intended to be locked in position upon a bolt or its equivalent, and refers to that class of such in which a pair of exactly similar interchangeable nuts are used, which nuts are mounted in adjacent positions upon the bolt, the one nut being adapted to be moved relatively to the other to lock the nuts in position upon the bolt, the nuts being prevented from relative rotation by the frictional engagement between their contacting surfaces.

According to this invention, I provide an interchangeable nut of the kind referred to, having a concentric recess at one end and a concentric projection at the other end, so proportioned that the recess or projection is interlockable with an exact counterpart of a similar nut.

If required the walls of either the recess, or the projection, or both, may be slightly tapered.

It is preferred to arrange the recess and projection so as to ensure that the frictional engagement between the two nuts takes place between the walls of the recess and projection.

Hitherto, locking means have been proposed in which one nut was provided with a concentrically arranged recess, with which was adapted to engage a projection upon a second nut, the two nuts being of a different construction and therefore not interchangeable.

It has also been proposed in this class of nut to construct the recess in the one nut with tapered walls, with which were adapted to engage the tapered projection or projections upon the other nut.

[Price 1/-]

In order that my invention may be clearly understood and more readily carried into practice I have appended hereto one sheet of drawings illustrating the same, wherein:—

Figure 1 is a view in side elevation, showing one form of the invention.

Figure 2 is a corresponding section.

Figure 3 is a plan view of Figure 1.

Figure 4 is a sectional view shewing another form of nut constructed in accordance with my invention.

In the construction illustrated each nut consists of a body portion 1 which may be of square, hexagonal or any other convenient shape upon the exterior.

One end of each nut is provided with a recess 2 having circular walls 3 and the other end of each nut is provided with a projection 4 having circular walls 5.

Both the recess and the projection are arranged concentrically on the nut and are of unbroken annular form.

In the arrangement shewn in Figure 2, the walls 3 of the recess 2 are slightly tapering so that the mouth of the recess is larger than the base of the recess, but the projection 4 is parallel.

If required, however, as shewn in Figure 4, the walls of the recess 2 and projection 4 may both be formed to the same taper.

When the nuts are in use it is not intended that there shall be any appreciable distortion of the projection 4. The lock relied upon is a frictional lock between the walls of the engaging projections and recesses.

If required, additional nuts may be used, it being understood that each two adjacent nuts will engage each other in the manner described.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A lock nut of the kind referred to,

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having a concentric recess at one end and a concentric projection at the other end, so proportioned that the recess or projection is interlockable with an exact counterpart of a similar nut.

2. A lock nut according to Claim 1 wherein the walls of the recess or of the projection or of both, are tapered.

3. A lock nut substantially as described

with reference to Figures 1 to 3 or Figure 10 of the accompanying drawings.

Dated the 3rd day of April, 1925.

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[This Drawing is a reproduction of the Original on a reduced scale]

FIG. 1.

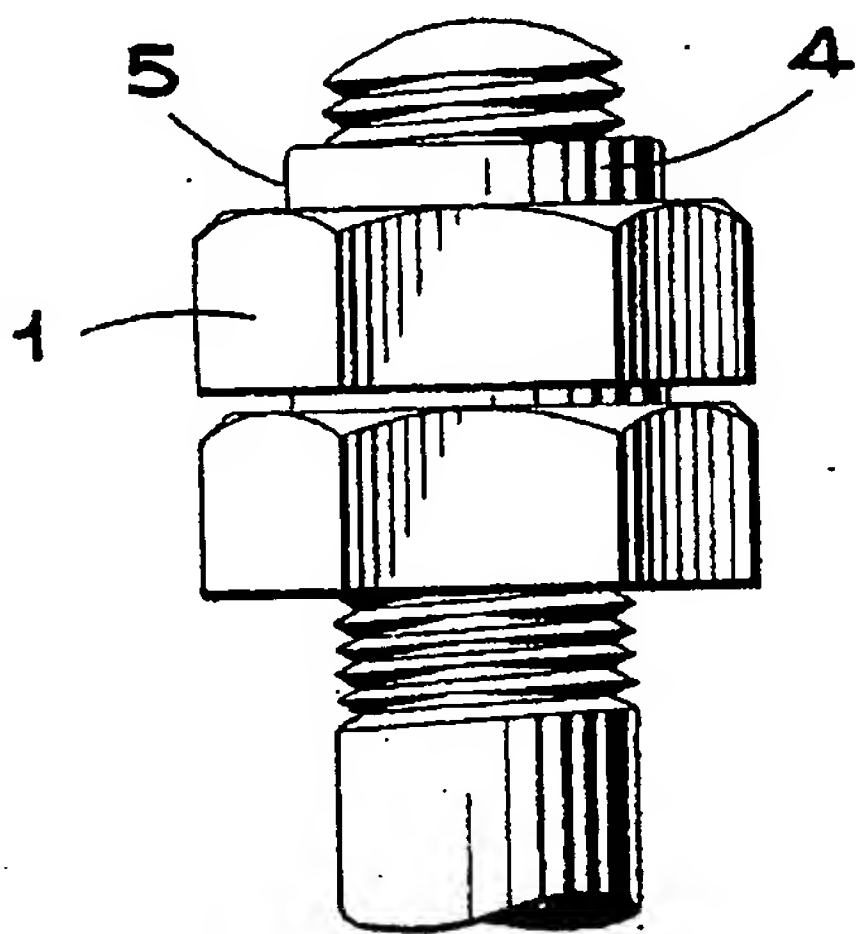


FIG. 2.

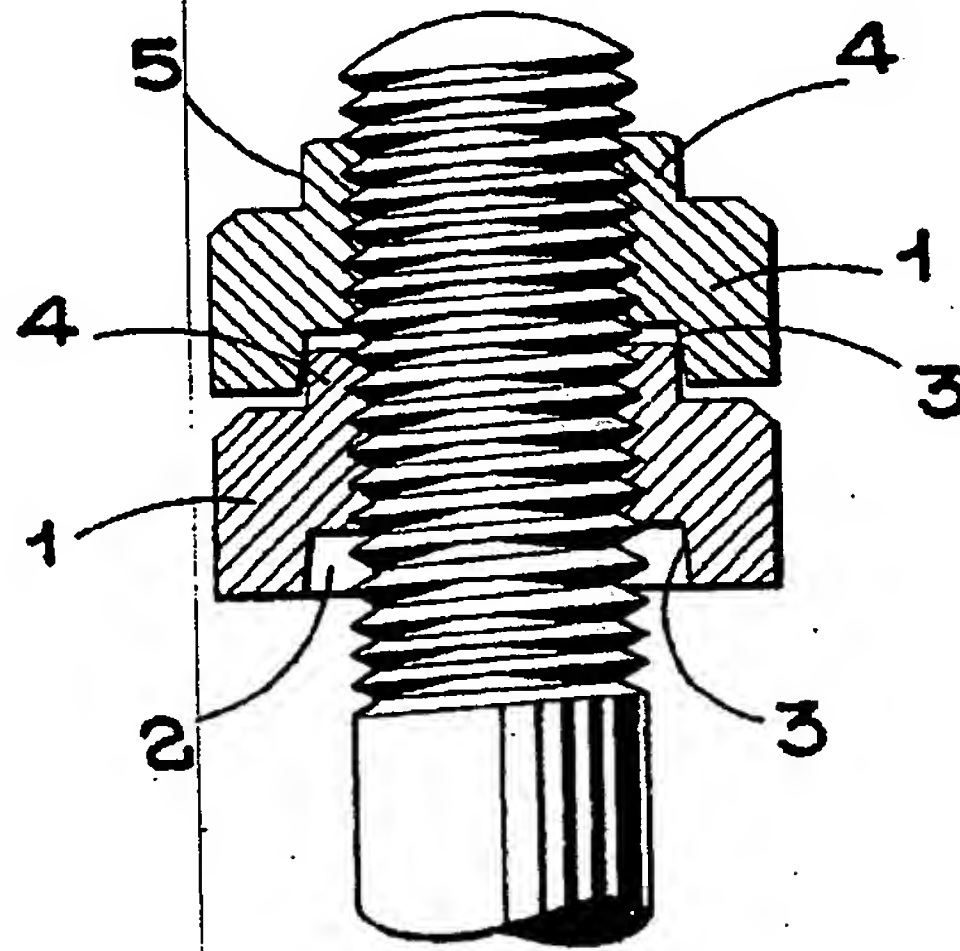


FIG. 3.

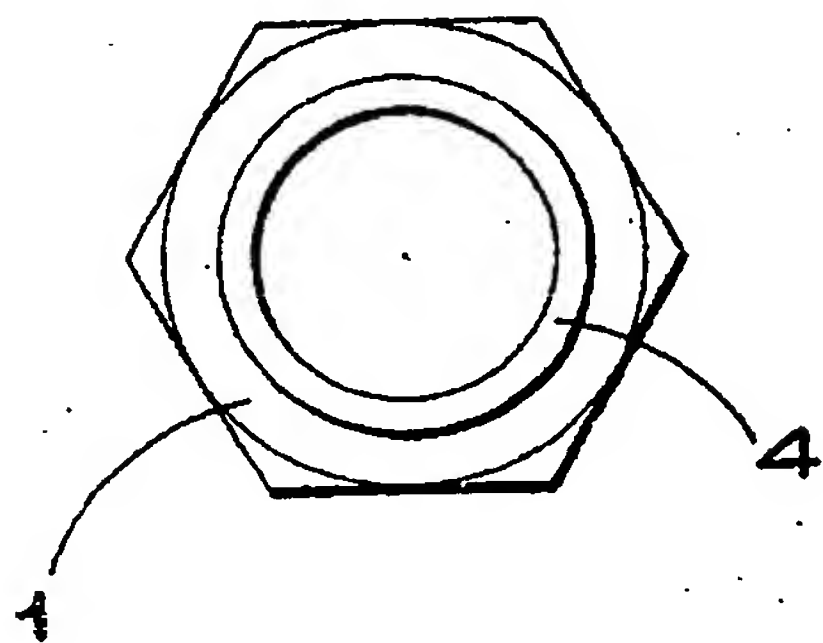
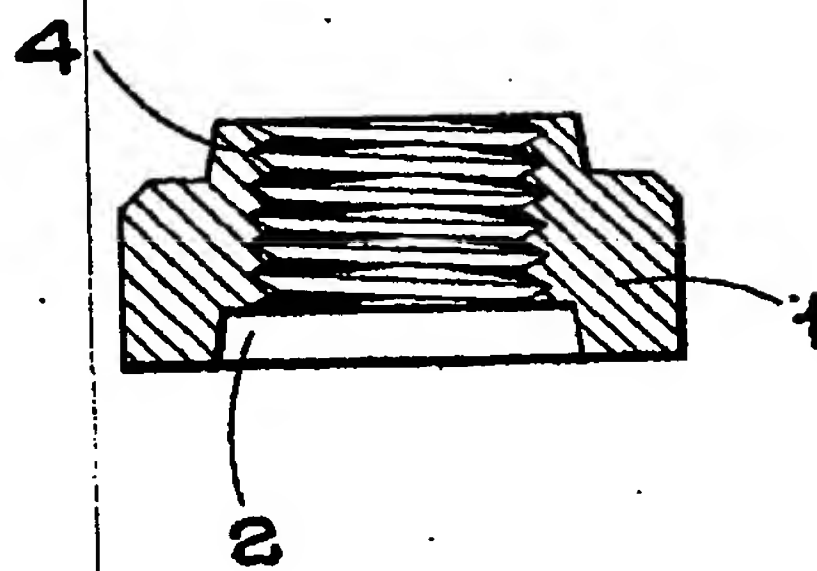


FIG. 4.



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